

Amendments to the Claims

1. (Currently amended) An insulated concrete panel, comprising:
 - (a) a first concrete layer;
 - (b) a second concrete layer spaced apart from the first concrete layer;
 - (c) an insulation layer;
 - (d) a plurality of connectors interconnecting the two concrete layers through the insulation layer; and
 - (e) a post-tensioning tendon assembly positioned substantially in the plane of the insulation layer.
2. (Currently amended) A panel as defined in claim 1, wherein the post-tensioning tendon assembly comprises:
 - (a) a longitudinal element extending over the majority of the panel length;
 - (b) anchorage members interconnecting the concrete layers with the longitudinal element for transferring a post-tensioning force from the longitudinal element to the concrete layers.
3. (Original) A panel as defined in claim 2, wherein the longitudinal element is comprised of a high-strength rod, strand, or bar.
4. (Original) A panel as defined in claim 2, wherein the longitudinal element is placed in a space formed in the insulation layer.
5. (Original) A panel as defined in claim 4, further comprising sheathing which covers a central portion of the longitudinal element.
6. (Original) A panel as defined in claim 2, wherein the longitudinal element is adjusted to produce tension in the longitudinal element and compression in the concrete layers.

7. (Original) A method for constructing an insulated concrete panel, comprising the steps of:

- (a) placing a first layer of plastic concrete;
- (b) placing a layer of insulation on the first concrete layer;
- (c) inserting a plurality of fasteners through the insulation layer into the first concrete layer such that the fasteners are embedded into the first concrete layer while the concrete is plastic;
- (d) positioning a post-tensioning tendon in the insulation layer;
- (e) placing a second concrete layer on the insulation layer and consolidated around exposed end portions of the plurality of fasteners; positioning in the concrete layers a pair of anchor plates a predetermined distance apart
- (f) allowing the concrete layers to gain strength through curing; and
- (g) adjusting the post-tensioning tendon to produce a force in the tendon and in the concrete layers.

8. (Original) A method as defined in claim 7, wherein the post-tensioning tendon comprises a high-strength longitudinal element and wherein the adjusting step comprises adjusting an end portion of the longitudinal element.

9. (Original) A method as defined in claim 8, wherein adjusting of the end portion of the longitudinal element produces tension in the longitudinal element and compression in the concrete layers.

10. (Original) A method as defined in claim 7, wherein positioning of the post-tensioning tendon occurs while the first concrete layer is still plastic.

11. (Original) A method as defined in claim 8, further comprising the step of forming a duct in the insulation layer for receiving the longitudinal element and wherein the longitudinal element is installed in the duct after the two concrete layers have gained strength.